

MAT 331-4 First Course in Linear Algebra

Spring 2019

MW 12:45 pm - 2:05 pm CARN 119

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Office Hours: Mon, Wed, Fri 9:30 am - 11:30 am

Mathematics Prerequisite: MAT 286 or MAT 296. Credit will not be given for both MAT 331 and MAT 485.

Textbook: *Linear Algebra and its Applications*, 5th edition, David C. Lay, Steven Lay and Judi McDonald

Course Description: Linear equations, Linear transformations, Matrices, n -dimensional Euclidean spaces, Associated geometry.

Calculator Policy: You are not allowed to use a graphing calculator such as TI-84, TI-85 on homework, quizzes, and exams in this class.

Homework: The key to success in this course is to master the homework. A list of problems from the textbook are included on the last page of this syllabus. Although they will not be collected for a grade, it is absolutely vital that you learn to solve the problems correctly in order to keep up with the class.

Quizzes: There will be a quiz on every Wednesday unless except during exam weeks. There will be no make-up quizzes, but the two lowest quiz scores will be dropped.

Exams: Two in-class exams are tentatively scheduled for Feb. 18 and Apr 1. There will be no makeup exams for any reason. If you have a documented excused absence for one of the in-class exams, your grade on the relevant portion of the final will be used to cover the missed exam. The final exam will be given at the scheduled time which will be a 2-hour block between 8 am and 2:30 pm on Monday, May 6. Every student is required to take the final exam at that time without exception.

Grading: Course grades will be based on quizzes (20%), two in-class exams (25% each), and the cumulative final exam (30%).

Religious Observances Policy: Syracuse University's Religious Observances Policy recognizes the diversity of faiths represented among the campus community and protects the rights of students, faculty, and staff to observe religious holy days according to their tradition. Under the policy, students are provided an opportunity to make up any examination, study, or work requirements that may be missed due to a religious observance provided they notify their instructors no later than the end of the second week of classes. For fall and spring semesters, an online notification process is available through MySlice (Student Services Enrollment My Religious Observances) from the first day of class until the end of the second week of class.

Students with Disabilities: If you believe that you need academic adjustments (accommodations) for a disability, please contact the Office of Disability Services (ODS) at

<http://disabilityservices.syr.edu>

located in Room 309 of 804 University Avenue, or call (315) 443-4498 or TDD: (315) 443-1371 for an appointment to discuss your needs and the process for requesting academic adjustments. ODS is responsible for coordinating disability-related academic adjustments and will issue students with documented Disabilities Accommodation Authorization Letters, as appropriate. Since academic adjustments may require early planning and generally are not provided retroactively, please contact ODS as soon as possible.

Academic Integrity: Syracuse University's Academic Integrity Policy reflects the high value that we, as a university community, place on honesty in academic work. The policy defines our expectations for academic honesty and holds students accountable for the integrity of all work they submit. Students should understand that it is their responsibility to learn about course-specific expectations, as well as about university-wide academic integrity expectations. The policy governs appropriate citation and use of sources, the integrity of work submitted in exams and assignments, and the veracity of signatures on attendance sheets and other verification of participation in class activities. The policy also prohibits students from submitting the same work in more than one class without receiving written authorization in advance from both instructors. Under the policy, students found in violation are subject to grade sanctions determined by the course instructor and non-grade sanctions determined by the School or College where the course is offered as described in the Violation and Sanction Classification Rubric. SU students are required to read an online summary of the University's academic integrity expectations and provide an electronic signature agreeing to abide by them twice a year during pre-term check-in on MySlice.

The Violation and Sanction Classification Rubric establishes recommended guidelines for the determination of grade penalties by faculty and instructors, while also giving them discretion to select the grade penalty they believe most suitable, including course failure, regardless of violation level. Any established violation in this course may result in course failure regardless of violation level. For more information and the complete policy, see <http://class.syr.edu/academic-integrity/>.

HOMWORK ASSIGNMENTS

SECTION	PROBLEMS
1.1	11, 13, 15, 17, 19, 23, 24, 25
1.2	2, 5, 6, 11, 15, 19 (find all such values of h and k), 21, 25, 26
1.3	9, 11, 13, 17, 21, 23 (b-e), 25 (b, c)
1.4	1, 3, 7, 9, 11, 15, 17, 19, 21, 23 (b-e), 31, 33
1.5	1, 7, 11, 23, 29, 30, 31, 32
1.7	1, 5, 7, 9, 11, 15, 17, 19, 21, 31
1.8	1, 3, 5, 7, 8, 9, 13, 15, 17, 19, 21, 27
1.9	1, 3, 5, 7, 9, 17, 19, 23
2.1	1, 3, 5, 7, 11, 12, 15, 19, 20, 27, 28
2.2	1, 5, 9, 13, 15, 21, 22, 24, 31, 32, 33, 35
2.3	4, 8, 11, 13, 14, 15, 16, 17, 33, 35
2.7	2, 3, 5, 7
2.8	1, 3, 5, 7, 9, 11, 13, 15, 17, 21, 23, 25
2.9	1, 3, 5, 9, 11, 13, 15, 16, 17, 19, 20, 21, 22
3.1	9, 11, 13, 15, 17
3.2	15, 17, 19, 29, 31, 34
3.3	19, 21, 23, 27, 28
5.1	3, 5, 9, 13, 15, 17, 18, 19, 21, 25, 29
5.2	1, 3, 5, 7, 13, 15, 16
5.3	7, 9, 11, 13, 17, 21, 23, 25
6.1	5, 7, 9, 11, 15, 17
6.2	1, 5, 9, 11, 13, 15
6.3	3, 5, 7, 9, 11, 13
6.4	3, 5, 7, 9, 11